PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF AN EXISTING TRAFFIC CONTROL SIGNAL (ULTIMATE PHASE) AT THE INTERSECTION OF MD ROUTE 187 (OLD GEORGETOWN ROAD) AND 1-270 SB AND NB RAMPS IN MONTGOMERY COUNTY. MD ROUTE 187 (OLD GEORGETOWN ROAD) IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION. II. INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA SIX (6) PHASE, SEMI-TRAFFIC-ACTUATED MODE. THERE WILL BE AN EXCLUSIVE LEFT TURN PHASE FOR SOUTHBOUND AND NORTHBOUND MD 187 MOVEMENT. THE MD 187 THROUGH MOVEMENTS ARE TO OPERATE CONCURRENTLY. EASTBOUND MOVEMENTS FROM THE 1-270 RAMPS WILL OPERATE CONCURRENTLY. AN ADDITIONAL EASTBOUND RIGHT TURN PHASE ON THE 1-270 RAMP WILL OPERATE CONCURRENTLY WITH THE EASTBOUND I-270 RAMP MOVEMENT. CONCURRENT PEDESTRIAN PHASES WILL BE PROVIDED ACROSS THE EAST AND WEST LEGS OF MD 187.

A FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER WITH VIDEO TRAFFIC DETECTION SYSTEM, AND L.A.U. PANEL WITH ASSOCIATED HARNESS HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET WILL BE INSTALLED AT THIS LOCATION.

THE EXISTING 50 PAIR VOICE GRADE INTERCONNECT CABLE BETWEEN THE INTERSECTIONS OF MD 187 AT TUCKERMAN LANE AND MD 187 AT ROCK SPRING DRIVE IS TO BE MAINTAINED AND REWIRED AS SHOWN ON

THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE, EXCLUDING INTERCONNECT, TO THE APPROPRIATE TERMINALS AND PROPERLY LABELING EACH CABLE. DISCONNECTING AND SPLICING OF INTERCONNECT CABLE SHALL BE PERFORMED BY MONTGOMERY COUNTY FORCES. THE CONTRACTOR SHALL RUN THE INTERCONNECT CABLE INTO THE BASE OF CABINET AND PROPERLY TAG. CONTACT MR BOB GONZLES AT (240) 777-8761 SEVENTY TWO HOURS IN ADVANCE OF THE INTENDED WORK.

IV. PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT THREE ARE AS FOLLOWS:

DISTRICT ENGINEER PHONE (301) 513-7311

MR. MAJID SHAKIB ASSISTANT DISTRICT UTILITY ENGINEER ENGINEER-TRAFFIC PHONE: (301) 513-7358

MR. AUGUSTINE REHBISH MR. RICHARD L. DAFF, SR. CHIEF, TRAFFIC OPERATIONS DIVISION PHONE: (301) 513-7350 PHONE: (410) 787-7630

V. MAINTENANCE OF TRAFFIC

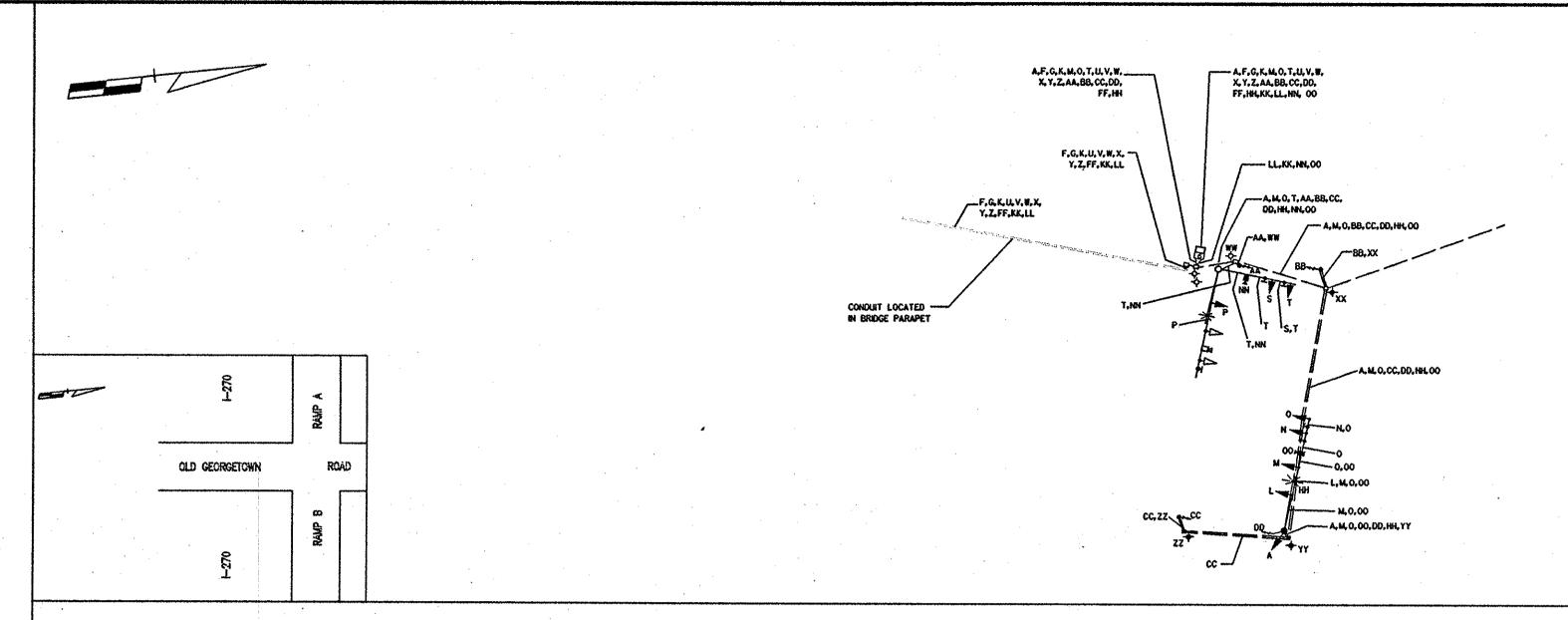
THE FOLLOWING STANDARD TRAFFIC CONTROL NUMBERS SHALL BE REFERENCED:

STANDARD NO. 104.00

STANDARDS NO. 104.37, 104.38 (LANE CLOSURE) STANDARDS NO. 104.39, 104.40 (INTERSECTION FAR SIDE CLOSURE) STANDARD NO. 104.43 (SHOULDER WORK)

MR. ROBERT GONZALES TRAFFIC ENGINEER MONTGOMERY COUNTY DPWT PHONE: (240) 777-8761

THE POWER COMPANY REPRESENTATIVE IS POTOMAC ELECTRIC POWER COMPANY ELIZA HEMINGWAY PHONE: (202) 872-2000



A,E,F,G,H,I,J,K, — 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
L,M,N,O,P,S,T

WIRING LEGEND:

U,V,W,X,Y,Z, AA,BB,CC,DD FF, HH - 2-CONDUCTOR ELECTRICAL CABLE (NO. 12 A.W.G.)

KK,LL,NN,OO, - VIDEO TRAFFIC DETECTION CABLE 7-CONDUCTOR (NO. 18 A.W.G.)

PP.QQ.SS.TT.UU. -- STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
WW,XX,YY,ZZ

- 3-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

+ — 3/4* × 10′ GROUND ROD

EQUIPMENT LIST 'A'

A. EQUIPMENT TO BE SUPPLIED BY THE SHA. SPECIFICATION

QUANTITY UNIT SECTION

DESCRIPTION

FLAT SHEET ALUMINUM SIGNS CONSISTING OF: - 3 EACH R3-5L (30" X 36") - MAST ARM MOUNT

- 1 EACH R3-6 (30° X 36°) - MAST ARM MOUNT - 1 ASSOCIATED MD 187 SHIELD ASSEMBLY (48' X 75') - 1 EACH M4-5 (24" X 12") - POLE MOUNT

- 1 EACH M3-4 (24" X 12") - POLE MOUNT - 1 EACH MI-1 (30° X 24°) - POLE MOUNT

- 1 EACH M6-3 (21" X 15") - POLE MOUNT

EQUIPMENT LIST 'B'

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

			•	
		SPECIFICATION		
QUANTI TY	UNI T	SECTION	DESCRIPTION	
33Ø	LF	556	12 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING	
160	LF	556	24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING	
7	CY	801	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION	

INT PREFORMED THERMOPLASTIC PAVEMENT MARKING FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION FURNISH AND INSTALL 27-FOOT STEEL POLE WITH SINGLE 70-FOOT MAST ARM FURNISH AND INSTALL 12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION 81 **3** INSTALL OVERHEAD SIGN

FURNISH AND INSTALL 20-FOOT LIGHTING ARM ON SIGNAL STRUCTURE

FURNISH AND INSTALL 250 WATT HIGH PRESSURE SODIUM LAMP AND LUMINARE WITH PHOTOCELL FURNISH AND INSTALL GROUND ROD-3/4 INCH DIAMETER X 10-FOOT LENGTH

FURNISH AND INSTALL 10-FOOT BREAKWAY PEDESTAL POLE

FURNISH AND INSTALL 12-INCH PEDESTRIAN SIGNAL HEAD SECTION POLE MOUNT

FURNISH AND INSTALL ELECTRICAL HANDHOLE

FURNISH AND INSTALL ELECTRICAL CABLE- 3 CONDUCTOR (NO 14 AWG)

FURNISH AND INSTALL ELECTRICAL CABLE- 5 CONDUCTOR (NO 14 AWG) FURNISH AND INSTALL VIDEO TRAFFIC DETECTION CABLE

REMOVE AND DISPOSE OF EXISTING EQUIPMENT FURNISH AND INSTALL VIDEO TRAFFIC DETECTION SYSTEM

PHASE CHART

		, ©	<u> </u>		<u> </u>	©	(6)	(6)	(6)	©					
PHASE 1 & 6	← G-	← G-	G	G	R	R	R	R	R	R	DW	DW	DW	DW	
1 CHANGE	← Y-	- Y-	G	G	R	R	R	R	R	R	DW	DW	DW	DW	→ _T
PHASE 2 & 6	◆R-	← R-	G	G	G	G	G	R	R	R	W	W	W	W	•
PED CLEAR	← R-	→ R-	G	G	G	G	G	R	R	R	FL/DW	FL/DW	FL/DW	FL/DW	←
2 % 6 CHANGE		- R-		Y	Y	Y	Y	R	R	R	DW	DW	$\overline{\mathrm{DW}}$	DW	T
PHASE 4	→ R-	+ R-	R	R	R	R	R	G	G	G	DW	DW	DW	DW	<u>.</u> –
4 CHANGE	∢R-	→ R-	R	R	R	R	R	Y	Y	Y	DW	DW	DW	DW	 +
FLASHING OPERATION	FL/		FL/ Y	FL/ Y	FL Y	FL/ Y	FL/ Y	FL R	FL R	FL R	DARK	DARK	DARK	DARK	← → ↑

REVISIONS APPROVALS S REDLINE REVISION NO. 5
NEW SHEET 9/4/2001 8/10/10 TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION ORIGINAL ADDENDUM NO. 2 REPLACEMENT SHEET CHEF. TRAFFIC ENGINEERING DESIDE DIVISION

FILE

DIRECTOR, TRAFFIC & SAFETY

(B) REVISED SIGNAL HEAD DISPLAY

10/14/76

TS-I4B MARYLAND DOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety TRAFFIC ENGINEERING DESIGN DIVISION

I-270 INTERCHANGES AT ROCKLEDGE DRIVE AND MD 187 GENERAL INFORMATION SHEET (ULTIMATE PHASE) I-270 RAMP A/RAMP B AT MD 187 (OLD GEORGETOWN ROAD)

TS NO. 125IC-GI DRAWN BY: STEVE RENZI F.A.P. NO. CHECKED BYSTEVE RENZI S.H.A. NO. SHEET NO. COUNTY: MONTGOMERY T.I.M.S. NO. 12/27/74 LOG MILE: 15018703.80 D-311 265B OF 404 M: #1998#198078#TRAFFIC#

KCI TECHNOLOGIES INC. ENGINEERS AND PLANNERS 10 NORTH PARK DRIVE HUNT VALLEY, MARYLAND 21030-1888 (410) 316-7800

SCALE:

DATE: